



Gas Transmitter Series MGS-150



Fixed Gas Monitor

Ideal for Commercial and Industrial Refrigeration, Food Storage and Food Processing Facilities, Supermarkets, Parking Garages, Wastewater Treatment Facilities, Hospitals and Universities.

Features & Benefits:

- Infrared, semiconductor and electrochemical sensor options to meet almost any gas detection need - at the most affordable cost.
- User-selectable analog outputs: 4-20 mA, 0-5V, 0-10V, 1-5V, 2-10V featuring 12/24 VAC/VDC operation
- Fast-response sensors detect leaks quickly, which protect personnel and minimize refrigerant gas usage and environmental impact.
- Long-life semiconductor sensors for detection of all refrigerants, ammonia, halocarbons, combustible gases & VOCs
- Robust design and remote sensor options allow units to be placed directly in areas where detection is needed.
- Available in a variety of housings, including IP66 and duct mount, for placement in the toughest of environments.



MGS
Standard
Housing



MGS-150 Technical Specifications

Power Supply:	12/24 VAC/VDC operation	Analog Outputs	4-20 mA, 0-5 V, 0-10 V, 1-5 V, 2-10 V
Power Consumption (12V):	NDIR: 140 mA• SC: 160 mA• EC: 60 mA	Relay Output (Volt-free):	1 relay, 1 amp 24 VAC/VDC
Power Monitoring:	Green LED	Alarm Delay	Selectable: 0, 1, 5 or 10 minutes
Visual Alarm:	Red LED	IP Rating:	IP41 (standard) IP66 (optional)
Audible Alarm:	Buzzer, enabled/disabled	Dimensions & Weight - enclosures types:	Standard 3.35"x5.59"x2.09" • 6.3oz. IP41: 86 x 142 x 53mm • 180g IP66: 6.89"x6.5"x3.29" • 1lb.6oz. 175 x 165 x 82mm • 629g
Fault Monitoring:	Red LED (On) • Green LED (Off)		
Fault States:	0-1 V / 0-2 mA outputs		





MGS-150 Sensor Information

Infrared (NDIR) Sensor	Gas(es) Detected	Measuring Range(s)
	Carbon Dioxide (CO ₂)	0 - 1,000 ppm 0 - 2,000 ppm 0 - 5,000 ppm 0 - 10,000 ppm (0-1% vol.) 0 - 20,000 ppm (0-2% vol.) 0 - 5%, 0 - 10%
	Hydrocarbons (Methane, propane, etc.)	0 - 100% LEL, 0 - 100% vol.
Semiconductor Sensor	Gas(es) Detected	Measuring Range(s)
	Refrigerants - HFCs: (R134a, R404a, R407, R410a, & many more)	0 - 1,000 ppm
	Refrigerants - HFCs: (R22 & more)	0 - 1,000 ppm
	Refrigerants - CFCs (R11, R12 & more)	0 - 1,000 ppm
	Ammonia (NH ₃)	0 - 10,000 ppm
	Hydrogen (H ₂)	0 - 2,000 ppm
	Hydrocarbons Methane (natural gas), Propane, Butane, LPG, Ethylene, Isobutane	0 - 2,000 ppm
	VOCs: Acetone, Ethanol, Methanol, Trichloro-ethylene and more	0 - 2,000 ppm
Electrochemical Sensor	Gas(es) Detected	Measuring Range(s)
	Ammonia (NH ₃)	0 - 100 ppm* 0 - 500 ppm* 0 - 1,000 ppm* 0 - 5,000 ppm
	Carbon Monoxide (CO)	0 - 100 ppm* 0 - 500 ppm* 0 - 1,000 ppm
	Chlorine (Cl ₂)	0 - 20 ppm
	Chlorine Dioxide (Cl ₂ O)	0 - 1 ppm
	Ethylene Oxide (C ₂ H ₄ O)	0 - 20 ppm
	Ethylene (C ₂ H ₄)	0 - 20 ppm* 0 - 1,000 ppm
	Fluorine (F ₂)	0 - 1 ppm
	Hydrazine (N ₂ H ₂)	0 - 1 ppm
	Saline - Hydride (SiH ₄)	0 - 5 ppm
	Hydrogen (H ₂)	0 - 1,000 ppm
	Hydrogen Chloride (HCl)	0 - 50 ppm
	Hydrogen Cyanide (HCN)	0 - 50 ppm
	Hydrogen Sulfide (H ₂ S)	0 - 30 ppm* 0 - 200 ppm
	Nitric Oxide (NO)	0 - 100 ppm* 0 - 1,000 ppm
	Nitrogen Dioxide (NO ₂)	0 - 10 ppm
	Oxygen (O ₂)	0 - 30% vol.
	Ozone (O ₃)	0 - 2 ppm
	Phosgene (COCl ₂)	0 - 1 ppm
	Phosphine (PH ₃)	0 - 5 ppm
Sulfur Dioxide (SO ₂)	0 - 100 ppm	

